



# Indiana University Health

IU Health Physicians Orthopedics & Sports Medicine

### CARTIHEAL (TROCHLEA / FEMORAL CONDYLE)

#### PHYSICAL THERAPY PROTOCOL

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Patient Name: Date of Surgery:

**Evaluate and Treat** 

\_\_\_\_ Provide patient with home program

Frequency: \_\_\_\_\_\_x/week x \_\_\_\_\_weeks

\*Note: Dr. Saltzman may have differences in the proprietary rehabilitation protocol, in terms of brace use (particularly in the first 6 weeks), weightbearing (at time non-weightbearing through the first 6 weeks), and CPM use (typically is optional). These will be communicated with both the patients and the PT team based upon intraoperative findings and/or concurrent procedures



## Rehab Protocol: Trochlea



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Rehab Protocol	Range of Motion	Bracing	Weight Bearing	Additional Guidelines
<b>Trochlea Stage 1:</b> Immediate Post- operative (0-6 weeks)	No restriction; progress as tolerated to full ROM by week 6-8. CPM optional, but not required; passive ROM using stationary bike without resistance.	Locked in extension for weight bearing as tolerated.	Weight bearing as tolerated in full extension (brace locked.) progression to full weight bearing (f not locked in extension) in 6 weeks	Regain full knee extension Regular exercise bike as early as possible and increase resistance at -6 weeks. Edema control: Cryotherapy Quadriceps and hip/gluteal strengthening (non-weight bearing). Pool therapy
<b>Trochlea Stage 2:</b> Endurance Strength Building (6-12 weeks)	No restriction; progress as tolerated to full ROM by week 6-8 CPM optional, but not required; passive ROM using stationary bike without resistance.	No bracing	Full weight bearing	Edema control: Cryotherapy as needed. Quadriceps and hip/gluteal strengthening progression. Pool therapy. Ride against resistance (road bike) at 3 months.
Trochlea Stage 3: Maximum Strength and Explosive Power Building (12 weeks - 6 months)	No restrictions	No bracing	Full weight bearing	Emphasis on Normal Gait Pattern Progression of strengthening exercises without pain or swelling. Return to low-impact recreational activities. Light jog at 6 months.
<b>Trochlea Stage 4:</b> Running and Cutting/Return to Sports	No restrictions	No bracing	Full weight bearing	Progressive straight-line running, lateral drills, multidirectional agility drills. Return to running (high impact), pivoting and rotational sport at 9 months pending patient key parameters like weight, quad strength, etc.

Commercial training. Internal use only.

Rehab Protocol

Condyle Stage 1:

operative (0-6 weeks)

Immediate Post-

### Rehab Protocol: Condyle

Range of Motion

No restriction; progress as tolerated to full ROM by week

CPM optional, but not required;

passive ROM using stationary

bike without resistance.



<b>Condyle Stage 2:</b> Endurance Strength Building (6-12 weeks)	No restrictions	No bracing	Full weight bearing	Quadriceps and hip/gluteal strengthening progression Pool therapy Ride against resistance (road bike) at 3 months	
<b>Condyle Stage 3:</b> Maximum Strength and Explosive Power Building (12 weeks-6 months)	No restrictions	No bracing	Full weight bearing	Emphasis on Normal Gait Pattern Progression of strengthening exercises without pain or swelling Return to low-impact recreational activities Light jog at 6 months	
<b>Condyle Stage 4:</b> Running and Cutting/Return to Sports	No restrictions	No bracing	Full weight bearing	Progressive straight-line running, lateral drills, multidirectional agility drills Return to running (high impact), pivoting and rotational sport at 9 months pending patient key parameters like weight, quad strength, etc	

Bracing

No bracing

Commercial training. Internal use only.

\_\_ Other:

- \_\_ Modalities \_\_\_ H
- \_\_\_ Electrical Stimulation
- \_\_\_ Ultrasound
- \_\_\_\_Heat before/after \_\_\_\_\_Ice before/after exercise
- \_\_\_\_ May participate in aquatherapy after week three, begin aqua-running week 6



By signing this referral, I certify that I have examined this patient and physical therapy is medically necessary. This patient \_\_\_\_\_ would \_\_\_\_would not benefit from social services.

Date:\_\_\_\_\_

Bryan M. Saltzman, MD